

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A centrifugation injection mold, ~~characterized in that it comprises comprising:~~

a lower mold portion (10) having a basic block (11) that is ~~inferiorly and rotatively, a lower portion of the basic block being mounted to inside of a bearing means (30) and allowed to rotate therein, the bearing means being that are~~ affixed to a machine structure (E);

a plurality of axial columns (13), ~~each axial column having a bottom portion that is which are peripherally and superiorly affixed around to the basic block at an outer portion thereof (11), and;~~

a moveable block (12) defining a lower mold cavity (12a) and being ~~slidably mounted to the axial columns (13), the movable block being able to slide along the axial columns~~ in order to be axially displaced between an open mold position and a closed mold position[[,]];

elastic means (50) seated on the basic block (11) and constantly forcing the moveable block (12) to the closed mold position;

a locking means (15) mounted to each axial column (13); and

an upper mold portion (20) ~~to be~~ removably seated on the axial columns (13) and affixed thereto by the locking means (15) in a closed mold position.

Claim 2 (Currently Amended): The mold according to claim 1, ~~characterized in that wherein~~ each axial column carries a guide means (14) for receiving, by axial displacement, a corresponding external surface portion of the upper mold portion (20).

Claim 3 (Currently Amended): The mold according to claim 2, ~~characterized in that wherein~~ each guide means (14) is defined by a radially internal end chamfer of the respective axial column (13).

Claim 4 (Currently Amended): The mold according to claim 2, ~~characterized in that wherein~~ each axial column (13) carries a stop means (15) for limiting said axial displacement of the upper mold portion (20) and defining the closed mold position thereof.

Claim 5 (Currently Amended): The mold according to claim 4, ~~characterized in that wherein~~ each stop means (15) is defined by a respective locking means (15).

Claim 6 (Currently Amended): The mold according to claim 2, ~~characterized in that wherein~~ the upper mold portion (20) is provided with a lock receiving means (25) to be engaged by the locking means (15) of a respective axial column (13) when the upper mold portion (20) is axially slid in the guide means (14) until reaching the closed mold position and slightly rotated around its axis.

Claim 7 (Currently Amended): The mold according to claim 6, ~~characterized in that wherein~~ each locking means (15) comprises a pin radially projecting from the respective axial column (13), each lock receiving means (25) being defined by a groove provided in the external surface of the upper mold portion (20) and presenting an axial extension that receives the locking means (15) upon the axial sliding of the upper mold portion (20) in the guide means (14), and a short circumferential extension that receives the locking means (15) upon the slight rotation of the upper mold portion (20).

Claim 8 (Currently Amended): The mold according to claim 1, characterized in that it further comprises comprising:

an impelling means (60) operatively associated with the machine structure (E) and with the moveable block (12) and which is selectively driven to displace the moveable block (12) to the open mold position against the action of the elastic means (50).

Claim 9 (Currently Amended): The mold according to claim 8, characterized in that wherein the impelling means (60) comprises an elongated rod (61) axially and slidably trespassing extending through the basic block (11) and the moveable block (12) of the lower mold portion (10), said elongated rod (61) having an upper end provided with an annular flange (62) to be seated against the central region of the lower mold cavity (12a) and a lower end coupled to a driving device to selectively and axially displace the elongated rod (61).

Claim 10 (Currently Amended): The mold according to claim 9, characterized in that wherein the upper end of the elongated rod (61) further incorporates an axial extension (63) onto which is tightly fitted a lamination stack (PL) of the rotor of an electric motor.

Claim 11 (Currently Amended): The mold according to claim 1, characterized in that wherein each axial column (13) carries a spacer (70) that is simultaneously seated against the two mold portions (10a, 20a) movable block and the upper mold portion when the latter the movable block and the upper mold portion reach a certain minimum spacing larger than that corresponding to the respective closed mold position[[s]].